Assignment 5: Alcohol

1. Name the below compound according to IUPAC Naming Method

ОН	н сі он	но
ОН	н₃с Он	H³C CH³ CH³

2. Draw the below compound

a. 3,3-dibromo-1-	d. 2,4-dimethyl-3-pentanol
methylcyclohexane-1-ol	
b. 4-cyclobutyl-3,5-	e. 3-phenyl-1,3-butanediol
cycloheptadien-1-ol	
c. 5-methyl-4-hexen-2-ol	f. 3-ethyl-4-methyl-3-penten-1-ol

1. What is the product of the following reaction?

(a)

$$_{\text{H}_2\text{C}=\text{CH}-\text{CH}_2\text{-OH}} \xrightarrow{\text{excess}}$$
 ?

(b)

(c)

$$CH_3CH_2CH_2OH + (CH_3CO)_3O \longrightarrow ?$$

(d)

(e)

EP101 / EG101 Jan-April 2010

?

$$2\text{-methylpropene} \overset{B_2H_6}{-} \quad \overset{H_2O_2}{-} \\ OF$$

(f) MgBr CF3CF2OH ?

(g)
$$\stackrel{\text{CH}_3}{\longrightarrow} \stackrel{\text{CH}_3}{\longrightarrow} \stackrel{\text{H}_3\text{O}^+/\text{H}_2\text{O}}{\longrightarrow} ? \qquad \stackrel{\text{Na}_2\text{Cr}_2\text{O}_7}{\longrightarrow} ?$$